



UNITED STATES  
PATENT AND  
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JUN 1 2003

08411-032001

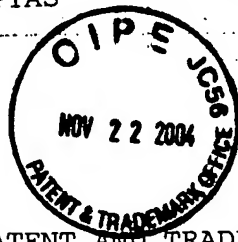
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Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
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FISH & RICHARDSON P.C., P.A.  
ELIZABETH N. KAYTOR  
60 SOUTH SIXTH STREET  
SUITE 3300  
MINNEAPOLIS, MN 55402



\*102363093A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/10/2003

REEL/FRAME: 013738/0331  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
WRIGHT, DAVID A.

DOC DATE: 01/27/2003

ASSIGNOR:  
VOYTAS, DANIEL F.

DOC DATE: 01/27/2003

ASSIGNEE:  
IOWA STATE UNIVERSITY RESEARCH  
FOUNDATION, INC.  
310 LAB OF MECHANICS  
IOWA STATE UNIVERSITY  
AMES, IOWA 50011-2131

SERIAL NUMBER: 09586106  
PATENT NUMBER:

FILING DATE: 06/02/2000  
ISSUE DATE:

*Jan*

6/23/03

013738/0331 PAGE 2

LAZENA MARTIN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

02-12-2003



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Substitute Form PTO-1595  
 Attorney Docket No.: 08411-032001  
 Client's Ref. No.: ISURF 02410-P1

# RECORDATION FORM COVER SHEET PATENTS ONLY

2-10-03

Commissioner for Patents: Please record the attached original document(s) or copy(ies).				
1. Name of conveying party(ies): David A. Wright and Daniel F. Voytas Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Iowa State University Research Foundation, Inc. 310 Lab of Mechanics Iowa State University Ames, Iowa 50011-2131  Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:  Execution Date: 01/27/2003	4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/586,106 B. Patent No(s):  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name/address of party to whom correspondence concerning document should be mailed:  ELIZABETH N. KAYTOR, PH.D. Fish & Richardson P.C., P.A. 60 South Sixth Street Suite 3300 Minneapolis, MN 55402	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.			
DO NOT USE THIS SPACE				
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>  <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">           Elizabeth N. Kaytor, Ph.D.            Reg. No. P-53,103            Name of Person Signing         </td> <td style="width: 33%; text-align: center;">             Signature         </td> <td style="width: 33%; text-align: center;">           February 4, 2003            Date         </td> </tr> </table>		Elizabeth N. Kaytor, Ph.D. Reg. No. P-53,103 Name of Person Signing	 Signature	February 4, 2003 Date
Elizabeth N. Kaytor, Ph.D. Reg. No. P-53,103 Name of Person Signing	 Signature	February 4, 2003 Date		
Total number of pages including coversheet, attachments and document: 4				

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02/11/2003 LMUELLER 00000137 09586106

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## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

February 4, 2003  
 Date of Deposit

Signature

Kristin Palmieri  
 Typed Name of Person Signing Certificate

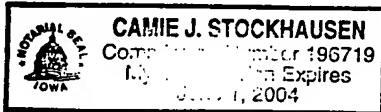
ASSIGNMENT

For valuable consideration, we, DAVID A. WRIGHT of 403 West 2nd Street, Boone, Iowa 50036-4017, DANIEL F. VOYTAS of 3108 Maplewood Road, Ames, Iowa 50014, hereby assign to: Iowa State University, a Iowa corporation having a place of business at: 310 Lab of Mechanics, Ames, IA 50011-2131; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PLANT RETROELEMENTS AND METHODS RELATED THERETO, filed June 2, 2000, and assigned U.S. Serial Number 09/586,106, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Ames, Iowa,  
this 23 day of July, 2002  
[Signature] L.S.  
DAVID A. WRIGHT

State of IA :  
County of Story : ss.

Before me this 23<sup>rd</sup> day of July, 2002, personally  
appeared DAVID A. WRIGHT known to me to be the person whose name is subscribed to the  
foregoing Assignment and acknowledged that he executed the same as his free act and deed for  
the purposes therein contained.



Camie J Stockhausen  
Notary Public  
My Commission Expires: 6/1/04

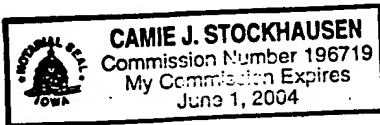
[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at AMES, IOWA  
this 23<sup>rd</sup> day of JULY, 2002  
[Signature] L.S.  
DANIEL F. VOYTAS

State of IA :

County of Story : SS.

Before me this 23<sup>rd</sup> day of July, 2002, personally  
appeared DANIEL F. VOYTAS known to me to be the person whose name is subscribed to the  
foregoing Assignment and acknowledged that he executed the same as his free act and deed for  
the purposes therein contained.



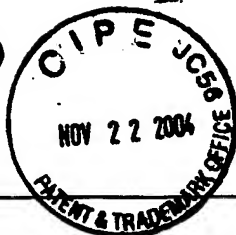
Camie J Stockhausen  
Notary Public  
My Commission Expires: 6/1/04

[Notary's Seal Here]

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UNITED STATES  
PATENT AND  
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OCTOBER 16, 2003

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Chief Financial Officer and Chief Administrative Officer  
Washington, DC 20231  
www.uspto.gov

FISH & RICHARDSON P.C., P.A.  
M. ANGELA PARSONS, PH.D.  
60 SOUTH SIXTH STREET  
SUITE 3300  
MINNEAPOLIS, MN 55402



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RECORDATION DATE: 05/12/2003

REEL/FRAME: 014049/0267  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
WRIGHT, DAVID A.

DOC DATE: 04/28/2003

ASSIGNOR:  
VOYTAS, DANIEL F.

DOC DATE: 04/28/2003

ASSIGNEE:  
IOWA STATE UNIVERSITY RESEARCH  
FOUNDATION, INC.  
310 LAB OF MECHANICS  
IOWA STATE UNIVERSITY  
AMES, IOWA 50011-2131

SERIAL NUMBER: 10395607  
PATENT NUMBER:

FILING DATE: 03/24/2003  
ISSUE DATE:

SAS 10/22/03

014049/0267 PAGE 2

KIMBERLY WHITE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS





05-14-2003



102447282

HEET

Substitute Form PTO-1595  
Attorney Docket No.: 08411-036001  
Client's Ref. No.: ISURF 02410-P2

5.12.03

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): David A. Wright and Daniel F. Voytas Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Iowa State University Research Foundation, Inc. 310 Lab of Mechanics Iowa State University Ames, Iowa 50011-2131 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 04/28/2003	4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 10/395,607 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name/address of party to whom correspondence concerning document should be mailed: M. ANGELA PARSONS, PH.D. Fish & Richardson P.C., P.A. 60 South Sixth Street Suite 3300 Minneapolis, MN 55402	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>	
M. Angela Parsons, Ph.D. Reg. No. 44,282 Name of Person Signing	 Signature May 8, 2003 Date
Total number of pages including coversheet, attachments and document: 4	

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05/13/2003 LMUELLER 00000034 10395607

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## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Mail Stop Assignment Recordation Services, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

May 8, 2003  
Date of Deposit

Signature

Jill Huso  
Typed Name of Person Signing Certificate

ASSIGNMENT

For valuable consideration, we, DAVID A. WRIGHT of 403 West 2nd Street, Boone, IA 50036-4017, and DANIEL F. VOYTAS of 3108 Maplewood Road, Ames, IA 50014, hereby assign to Iowa State University Research Foundation, Inc., a corporation of Iowa having a place of business at:

310 Lab of Mechanics  
Iowa State University  
Ames, Iowa 50011-2131; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PLANT RETROELEMENTS AND METHODS RELATED THERETO, filed March 24, 2003, and assigned U.S. Serial Number 10/395,607; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Ames, Story County, Iowa,  
this 28th day of April, 2003.

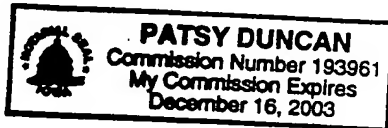
DAVID A. WRIGHT L.S.

State of Iowa :

: ss.

County of Story :

Before me this 28th day of April, 2003, personally appeared  
DAVID A. WRIGHT known to me to be the person whose name is subscribed to the foregoing  
Assignment and acknowledged that he executed the same as his free act and deed for the  
purposes therein contained.



Patsy Duncan  
Notary Public

My Commission Expires: 12/16/03

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Ames, Story County, Iowa,  
this 28th day of April, 2003.

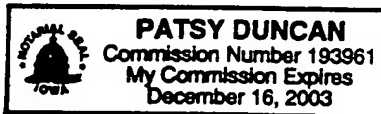
 L.S.  
DANIEL F. VOYTAS

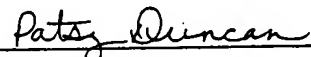
State of Iowa :

: ss.

County of Story :

Before me this 28th day of April, 2003, personally appeared  
DANIEL F. VOYTAS known to me to be the person whose name is subscribed to the foregoing  
Assignment and acknowledged that he executed the same as his free act and deed for the  
purposes therein contained.



  
Notary Public  
My Commission Expires: 12/16/03

[Notary's Seal Here]

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